

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

Franczyk, et al.

GROUP ART UNIT: UNKNOW

SERIAL NUMBER: 10/549,819

EXAMINER: UNKNOWN

FILED: March 22, 2004

DATE: July 25, 2006

TITLE: STEROID SPIROLACTONIZATION

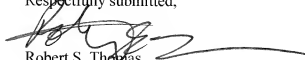
RESPONSE TO NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL  
APPLICATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

In response to the "Notice to File Missing Parts of Nonprovisional Application" dated April 27, 2006 (copy attached), enclosed is a fully-executed Declaration and Power of Attorney form bearing the signatures of the inventors of the subject application.

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account No. 19-1025.

Respectfully submitted,



Robert S. Thomas  
Attorney for Applicants  
Registration No. 52,284  
Tel: 314-274-4908

Pharmacia Corporation  
Corporate Patent Department  
P.O. Box 1027  
St. Louis, Missouri 63006



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

RECEIVED  
 MAY 01 2006

U.S. APPLICATION NUMBER NO. ✓ 10/549,819	FIRST NAMED APPLICANT ✓ Thaddeus S Franczyk II	ATTY. DOCKET NO. ✓ PHA 4152.23(3483/1Z/US)
INTERNATIONAL APPLICATION NO. ✓ PCT/US04/08629		
LA. FILING DATE ✓ 03/22/2004	PRIORITY DATE ✓ 03/21/2003	

321 JKR/054  
 SENNIGER POWERS  
 ONE METROPOLITAN SQUARE  
 16TH FLOOR  
 ST LOUIS, MO 63102

✓ CONFIRMATION NO. 7645

## 371 FORMALITIES LETTER



\*OC000000018621512\*

Date Mailed: 04/27/2006

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 09/20/2005
- Copy of the International Search Report filed on 10/28/2005
- Preliminary Amendments filed on 09/20/2005
- Information Disclosure Statements filed on 09/20/2005
- U.S. Basic National Fees filed on 09/20/2005
- Priority Documents filed on 09/20/2005
- Specification filed on 09/20/2005
- Claims filed on 09/20/2005
- Abstracts filed on 09/20/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

## SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$130** for a Large Entity:

- \$130 Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

SHAKEEL AHMED

Telephone: (703) 308-9140 EXT 208

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/549,819	PCT/US04/08629	PHA 4152.23(3483/1Z/US)

FORM PCT/DO/EO/905 (371 Formalities Notice)

**DECLARATION AND POWER OF ATTORNEY**

**REGULAR OR DESIGN APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

STEROID SPIROLACTONIZATION

the specification of which:

(check one)

- ☐ is attached hereto
- ☒ was filed on 09/20/05 as Application Serial No. 10/549,819, and was amended on                     .
- ☐ was described and claimed in PCT International Application No.                     , filed on                      and as amended under PCT Article 19 on                     , if any.

**ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56.

**PRIORITY CLAIM**

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a) - (d) or §365(b) of any foreign application for patent or inventor's certificate, or §365(a) of any PCT application which designates at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed

<u>US04/008629</u> (Number)	<u>WO</u> (Country)	<u>03/22/04</u> (Day/Month/Year Filed)
<u>                    </u> (Number)	<u>                    </u> (Country)	<u>                    </u> (Day/Month/Year Filed)
<u>                    </u> (Number)	<u>                    </u> (Country)	<u>                    </u> (Day/Month/Year Filed)

Priority Not Claimed

**ANY FOREIGN APPLICATION(S), ON THE SAME SUBJECT MATTER WHICH HAS A FILING DATE EARLIER THAN THE EARLIEST APPLICATION FROM WHICH PRIORITY IS CLAIMED**

<u>                    </u> (Number)	<u>                    </u> (Country)	<u>                    </u> (Day/Month/Year Filed)
---	--	---

**CLAIM FOR BENEFIT OF PROVISIONAL APPLICATION(S)**

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

<u>60/456,716</u> (Application Number)	<u>03/21/03</u> (Filing Date)
<u>                    </u> (Application Number)	<u>                    </u> (Filing Date)

**CLAIM FOR BENEFIT OF EARLIER U.S. APPLICATION(S) UNDER 35 U.S.C. 120**

(complete this part only if this is a divisional,  
continuation or CIP application)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

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(Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)
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(Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)
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**POWER OF ATTORNEY**

I hereby appoint the attorneys/agents associated with Customer No. 000045734 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

---

Send Correspondence To:	Direct Telephone Calls To:
Customer Number: 000045734	Janet S. Hendrickson, Ph.D. (314) 231-5400

---

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

- - - - -

3483/12/US  
PHA 4152.23

Full name of sole or first inventor Thaddeus S. Franczyk, II

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Portage, Michigan Citizenship US  
Post Office address 7000 Portage Road, MS 0200-091-201  
Portage, Michigan 49001

3483/12/US  
PHA 4152.23

Full name of second joint inventor Grace M. Wagner

Second inventor's signature Grace M. Wagner Date June 5, 2006  
Residence Webster Groves, Missouri Citizenship US  
Post Office address 219 Papin Avenue  
Webster Groves, Missouri 63119



3483/1Z/US  
PHA 4152.23

Full name of third joint inventor Bruce A. Pearlman

Third inventor's signature	Date
Residence <u>Kalamazoo, Michigan</u>	Citizenship <u>US</u>
Post Office address <u>3411 Willow Lake Drive, #308</u>	
<u>Kalamazoo, Michigan 49008</u>	

3483/12/US  
PHA 4152.23

Full name of fourth joint inventor Amphlett G. Padilla

Fourth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Portage, Michigan \_\_\_\_\_ Citizenship US  
Post Office address 10137 South Westnedge  
Portage, Michigan 49002

3483/1Z/US  
PHA 4152.23

Full name of fifth joint inventor Jeffrey L. Havens

Fifth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Mattawan, Michigan Citizenship US  
Post Office address 22570 6th Avenue  
Mattawan, Michigan 49071

3483/1Z/US  
PHA 4152.23

Full name of sixth joint inventor Sonja S. Mackey

Sixth inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence Saint Paul, Minnesota

Citizenship US

Post Office address 1335 Simpson Street

Saint Paul, Minnesota 55108

3483/1Z/US  
PHA 4152.23

Full name of seventh joint inventor Haifeng Wu

Seventh inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Portage, Michigan Citizenship US  
Post Office address 3681 Fawn Cove #3  
Portage, Michigan 49024

#### EXPLANATION OF ACKNOWLEDGEMENT

By signing the declaration, you acknowledge your duty to disclose to the U.S. Patent and Trademark Office information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56. Material information includes any information concerning whether:

The subject matter of this application was known or used by others in the United States before your invention thereof; or

The subject matter of this application was patented or described in any printed publication in any country before your invention thereof or more than one year prior to the date of this application; or

The subject matter of this application was in public use, offered for sale or on sale in the United States more than one year prior to the filing date of this application; or

The subject matter of this application was first patented or made the subject of an inventor's certificate issued in any country foreign to the United States as an application filed by you or your representatives or assigns more than twelve months prior to the date of this application; or

any application for patent or inventor's certificate on the subject matter of this application has been filed by your representatives or assigns in any foreign country.

**In addition, you must advise us of the closest prior art (including your own patents and publications) of which you are aware so that we may bring it to the attention of the U.S. Patent and Trademark Office.**

This duty to disclose material information continues after the application is filed. During the pendency of this patent application, each person substantially involved in the preparation or prosecution of this patent application, including each inventor, has a duty to disclose to the U.S. Patent and Trademark Office all known information which would be material to patentability. Failure to meet this duty can result in an unenforceable and/or invalid patent.

Any of the above information should be brought to the attention of the U.S. Patent and Trademark Office within three months of filing of this application, or within three months of acquiring such information, whichever is later. Accordingly, please promptly advise us of any of the above information, or any other information that may be material to patentability and is either presently known to you or later becomes known to you during the pendency of this application.

**DECLARATION AND POWER OF ATTORNEY**

**REGULAR OR DESIGN APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**STEROID SPIROLACTONIZATION**

the specification of which:

(check one)

- ☐ is attached hereto
- ☒ was filed on 09/20/05 as Application Serial No. 10/549,819, and was amended on \_\_\_\_\_.
- ☐ was described and claimed in PCT International Application No. \_\_\_\_\_, filed on \_\_\_\_\_, and as amended under PCT Article 19 on \_\_\_\_\_, if any.

**ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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**PRIORITY CLAIM**

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a) - (d) or §365(b) of any foreign application for patent or inventor's certificate, or §365(a) of any PCT application which designates at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

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<u>US04/008629</u>	<u>WO</u>	<u>03/22/04</u>
(Number)	(Country)	(Day/Month/Year Filed)
<u>                    </u>	<u>                    </u>	<u>                    </u>
(Number)	(Country)	(Day/Month/Year Filed)
<u>                    </u>	<u>                    </u>	<u>                    </u>
(Number)	(Country)	(Day/Month/Year Filed)

Priority Not Claimed

**ANY FOREIGN APPLICATION(S), ON THE SAME SUBJECT MATTER WHICH HAS A FILING DATE EARLIER THAN THE EARLIEST APPLICATION FROM WHICH PRIORITY IS CLAIMED**

<u>                    </u>	<u>                    </u>	<u>                    </u>
(Number)	(Country)	(Day/Month/Year Filed)

**CLAIM FOR BENEFIT OF PROVISIONAL APPLICATION(S)**

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

<u>60/456,716</u>	<u>03/21/03</u>
(Application Number)	(Filing Date)
<u>                    </u>	<u>                    </u>
(Application Number)	(Filing Date)



**CLAIM FOR BENEFIT OF EARLIER U.S. APPLICATION(S) UNDER 35 U.S.C. 120**

(complete this part only if this is a divisional,  
continuation or CIP application)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)
(Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

**POWER OF ATTORNEY**

I hereby appoint the attorneys/agents associated with Customer No. 000045734 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Send Correspondence To:	Direct Telephone Calls To:
Customer Number: 000045734	Janet S. Hendrickson, Ph.D. (314) 231-5400

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

- - - - -

3483/1Z/US  
PHA 4152.23

Full name of sole or first inventor Thaddeus S. Franczyk, II

Inventor's signature	_____	Date	_____
Residence	<u>Portage, Michigan</u>	Citizenship	<u>US</u>
Post Office address	<u>7000 Portage Road, MS 0200-091-201</u>		
	<u>Portage, Michigan 49001</u>		

3483/1Z/US  
PHA 4152.23

Full name of second joint inventor Grace M. Wagner

Second inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Webster Groves, Missouri Citizenship US

Post Office address 219 Papin Avenue

Webster Groves, Missouri 63119

3483/1Z/US  
PHA 4152.23

Full name of third joint inventor Bruce A. Pearlman

Third inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Kalamazoo, Michigan Citizenship US

Post Office address 3411 Willow Lake Drive, #308

Kalamazoo, Michigan 49008

3483/12/US  
PHA 4152.23

Full name of fourth joint inventor Amphlett G. Padilla  
Fourth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Portage, Michigan Citizenship US  
Post Office address 10137 South Westnedge  
Portage, Michigan 49002

3483/1Z/US  
PHA 4152.23

Full name of fifth joint inventor Jeffrey L. Havens

Fifth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Mattawan, Michigan \_\_\_\_\_ Citizenship US

Post Office address 22570 6th Avenue

Mattawan, Michigan 49071

3483/1Z/US  
PHA 4152.23

Full name of sixth joint inventor Sonja S. Mackey

~~Six~~th inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Saint Paul, Minnesota Citizenship US

Post Office address 1335 Simpson Street

Saint Paul, Minnesota 55108

3483/1Z/US  
PHA 4152.23

Full name of seventh joint inventor Haifeng Wu

Seventh inventor's signature Haifeng Wu Date 7 Mar 2006  
Residence Portage, Michigan Hackettstown, New Jersey Citizenship US P.R. China  
Post Office address 3681 Fawn Cove #3 2305 Scarlett Dr.  
Portage, Michigan 49024 Hackettstown, NJ 07840

corrected. H.Wu 7 Mar 2006



### EXPLANATION OF ACKNOWLEDGEMENT

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any application for patent or inventor's certificate on the subject matter of this application has been filed by your representatives or assigns in any foreign country.

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Janet S. Hendrickson, Ph.D.  
(314) 231-5400

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3483/1Z/US  
PHA 4152.23

Full name of sole or first inventor Thaddeus S. Franczyk, II

Inventor's signature			Date	
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Post Office address	<u>7000 Portage Road, MS 0200-091-201</u>			
	<u>Portage, Michigan 49001</u>			

3483/1Z/US  
PHA 4152.23

Full name of second joint inventor Grace M. Wagner

Second inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Webster Groves, Missouri Citizenship US

Post Office address 219 Papin Avenue

Webster Groves, Missouri 63119

3483/1Z/US  
PHA 4152.23

Full name of third joint inventor Bruce A. Pearlman

Third inventor's signature	Date
Residence <u>Kalamazoo, Michigan</u>	Citizenship <u>US</u>
Post Office address <u>3411 Willow Lake Drive, #308</u>	
<u>Kalamazoo, Michigan 49008</u>	


3483/1Z/US  
PHA 4152.23

Full name of fourth joint inventor Amphlett G. Padilla  
Fourth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Portage, Michigan \_\_\_\_\_ Citizenship US  
Post Office address 10137 South Westnedge  
Portage, Michigan 49002



3483/1Z/US  
PHA 4152.23

Full name of fifth joint inventor Jeffrey L. Havens

Fifth inventor's signature 

Date 13 March 2006

Residence Mattawan, Michigan

Citizenship US

Post Office address 22570 6th Avenue

Mattawan, Michigan 49071

3483/1Z/US  
PHA 4152.23

Full name of sixth joint inventor Sonja S. Mackey

Sixth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Saint Paul, Minnesota Citizenship US

Post Office address 1335 Simpson Street

Saint Paul, Minnesota 55108

3483/1Z/US  
PHA 4152.23

Full name of seventh joint inventor Haifeng Wu

Seventh inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
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**DECLARATION AND POWER OF ATTORNEY**

**REGULAR OR DESIGN APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**STEROID SPIROLACTONIZATION**

the specification of which:

(check one)

- ☐ is attached hereto
- ☒ was filed on 09/20/05 as Application Serial No. 10/549,819, and was amended on                     .
- ☐ was described and claimed in PCT International Application No.                     , filed on                      and as amended under PCT Article 19 on                     , if any.

**ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

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I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56.

**PRIORITY CLAIM**

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a) - (d) or §365(b) of any foreign application for patent or inventor's certificate, or §365(a) of any PCT application which designates at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed

<u>US04/008629</u>	<u>WO</u>	<u>03/22/04</u>
(Number)	(Country)	(Day/Month/Year Filed)
<u>                    </u>	<u>                    </u>	<u>                    </u>
(Number)	(Country)	(Day/Month/Year Filed)
<u>                    </u>	<u>                    </u>	<u>                    </u>
(Number)	(Country)	(Day/Month/Year Filed)

Priority Not Claimed

**ANY FOREIGN APPLICATION(S), ON THE SAME SUBJECT MATTER WHICH HAS A FILING DATE EARLIER THAN THE EARLIEST APPLICATION FROM WHICH PRIORITY IS CLAIMED**

<u>                    </u>	<u>                    </u>	<u>                    </u>
(Number)	(Country)	(Day/Month/Year Filed)

**CLAIM FOR BENEFIT OF PROVISIONAL APPLICATION(S)**

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

<u>60/456,716</u>	<u>03/21/03</u>
(Application Number)	(Filing Date)
<u>                    </u>	<u>                    </u>
(Application Number)	(Filing Date)

**CLAIM FOR BENEFIT OF EARLIER U.S. APPLICATION(S) UNDER 35 U.S.C. 120**

(complete this part only if this is a divisional,  
continuation or CIP application)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

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**POWER OF ATTORNEY**

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Send Correspondence To:

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Customer Number: 000045734

Janet S. Hendrickson, Ph.D.  
(314) 231-5400

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

- - - - -

3483/1Z/US  
PHA 4152.23

Full name of sole or first inventor Thaddeus S. Franczyk, II

Inventor's signature \_\_\_\_\_ Date: \_\_\_\_\_  
Residence Portage, Michigan Citizenship US  
Post Office address 7000 Portage Road, MS 0200-091-201  
Portage, Michigan 49001



3483/1Z/US  
PHA 4152.23

Full name of second joint inventor Grace M. Wagner

Second inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Webster Groves, Missouri Citizenship US

Post Office address 219 Papin Avenue

Webster Groves, Missouri 63119

3483/1Z/US  
PHA 4152.23

Full name of third joint inventor Bruce A. Pearlman

Third inventor's signature	_____	Date	_____
Residence	<u>Kalamazoo, Michigan</u>	Citizenship	<u>US</u>
Post Office address	<u>3411 Willow Lake Drive, #308</u>		
	<u>Kalamazoo, Michigan 49008</u>		

3483/1Z/US  
PHA 4152.23

Full name of fourth joint inventor Amphlett G. Padilla  
Fourth inventor's signature Amphlett G. Padilla Date 02/06/06  
Residence Portage, Michigan Citizenship US  
Post Office address 10137 South Westnedge  
Portage, Michigan 49002

3483/1Z/US  
PHA 4152.23

Full name of fifth joint inventor Jeffrey L. Havens

Fifth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Mattawan, Michigan \_\_\_\_\_ Citizenship US

Post Office address 22570 6th Avenue

Mattawan, Michigan 49071

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PHA 4152.23

Full name of sixth joint inventor Sonja S. Mackey

Sixth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Saint Paul, Minnesota Citizenship US

Post Office address 1335 Simpson Street

Saint Paul, Minnesota 55108

3483/1Z/US  
PHA 4152.23

Full name of seventh joint inventor Haifeng Wu

Seventh inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Portage, Michigan \_\_\_\_\_ Citizenship US  
Post Office address 3681 Fawn Cove #3  
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3483/12/US  
PHA 4152.23

Full name of sole or first inventor Thaddeus S. Franczyk, II

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Portage, Michigan Citizenship US  
Post Office address 7000 Portage Road, MS 0200-091-201  
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PHA 4152.23

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Second inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Webster Groves, Missouri Citizenship US

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Webster Groves, Missouri 63119

3483/12/US  
PHA 4152.23

Full name of third joint inventor Bruce A. Pearlman  
Third inventor's signature *Bruce A. Pearlman* Date 9 March 2006  
Residence Kalamazoo, Michigan Citizenship US  
Post Office address 3411 Willow Lake Drive, #308  
Kalamazoo, Michigan 49008

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PHA 4152.23

Full name of fourth joint inventor Amphlett G. Padilla  
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Sixth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Seventh inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Customer Number: 000045734	Janet S. Hendrickson, Ph.D. (314) 231-5400

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3483/1Z/US  
PHA 4152.23

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Inventor's signature	_____	Date	_____
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Post Office address	<u>7000 Portage Road, MS 0200-091-201</u>		
	<u>Portage, Michigan 49001</u>		

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PHA 4152.23

Full name of second joint inventor Grace M. Wagner

Second inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Third inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

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Fourth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
Residence Portage, Michigan \_\_\_\_\_ Citizenship US  
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Portage, Michigan 49002

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Fifth inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence Mattawan, Michigan Citizenship US

Post Office address 22570 6th Avenue

Mattawan, Michigan 49071

3483/1Z/US  
PHA 4152.23

Full name of sixth joint inventor Sonja S. Mackey

Sixth inventor's signature *Sonja S. Mackey* Date 02 June 2006

Residence Saint Paul, Minnesota Citizenship US

Post Office address 1335 Simpson Street  
Saint Paul, Minnesota 55108

3483/12/US  
PHA 4152.23

Full name of seventh joint inventor Haifeng Wu

Seventh inventor's signature \_\_\_\_\_ Date \_\_\_\_\_  
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**POWER OF ATTORNEY**

I hereby appoint the attorneys/agents associated with Customer No. 000045734 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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